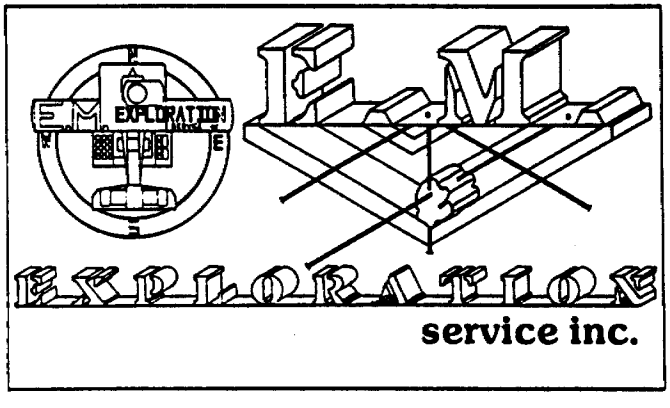
LINE CUTTING AND ELECTROMAGNETIC (V.L.F.) AND MAGNETIC SURVEYS BLACK TOWNSHIP CARD LAKE PROPERTY AMERICAN BARRICK RESOURCES CORP. JUNE 1988



C. P. 24, Rouyn-Noranda (Québec) J9X 5C1
Tél.: (819) 762-5220

TABLE OF CONTENTS

MAPS

INTRODUCTION

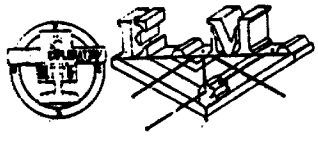
Under an agreement between American Barrick Resources Corp. and E.M. Exploration Services inc. in June 1988, a contract was given to E.M. Exploration Services inc. for the line cutting and geophysical surveys (magnetic and electromagnetic). The work was to be done on Card Lake property, belonging to American Barrick Resources Corp. and situated in Black township in Ontario. Detailed line cutting was done in order to be able to use geophysical instruments to determine the location of the geological conductors.

The VLF electromagnetic survey was performed with a view to detecting conductive zones possibly containing gold-bearing mineralization. On the other hand, the magnetic survey was used to gain a better understanding of the geological formations and rock structures and to see if any magnetic anomalies were associated with the different VLF conductors.

PROPERTY LOCATION AND ACCESS

The project took place in Black Township in Ontario, on the Card Lake property belonging to American Barrick Resources Inc.

The township is accessible by automobile: 10 km south of Ramore on route 11, turn west across from the Butler Lake truck stop and drive to Butler Lake. From there, drive 6 km of route 11 to Lake Errett, located in the south-eastern part of Card Lake property.



Card Lake property covers 35 claims:

1016324	503188	511672	1016337
1016325	503189	511673	1016338
1016326	503190	511416	1016339
1016327	503191	511144	1016340
1016328	503192	511145	1016341
1016329	503193	511417	1016342
1016330		515709	1016343
1016331		515706	
1016334		515707	
1016335		515708	
1016336		511671	

WORK CONDUCTED ON THE PROPERTY

a) Line cutting

During the month of June 1988, 58.98 km of line were cut in Black township. The azimuth of the base and tie lines is 332°; these lines are 600 meters apart. The conventional lines have an azimuth of 62° spaced at intervals of 100 meters. It should be pointed out that near Lake Errett, some lines were cut 50 meters apart in an area where a drilling project one took place. All lines were chained horizontally, pickets were put up and painted every 25 meters.

b) Geophysical surveys

Two different geophysical surveys were performed in July: a VLF electromagnetic survey and a magnetic survey, over a total of 49.92 km.

1. VLF electromagnetic survey

The VLF (very low frequency) electromagnetic survey was conducted with the use of a Geonics E.M. 16 machine. The frequency was N.S.S. Indianapolis, with the operator pointing the instrument north-east and taking a reading every 25 meters.

2. **Magnetic survey**

The magnetic survey was used to measure the total field and the vertical gradient. The survey was performed with an E.D.A. Omni IV magnetometer, considered precise to 0.1 gamma.

Daytime magnetic variations were corrected by computer with the help of a base magnetometer taking an automatic reading every minute. This machine was kept on the property during the entire length of the survey. Readings were taken every 25 meters, except where anomalies were found. In such cases, readings were taken every 12.5 meters in order to locate magnetic peaks.

DETAILS ON THE GEOPHYSICAL METHODS

The VLF electromagnetic method is normally used in heavy overburden areas which are not particulary conductive. Their aim is to bring out the geological structure by detecting any faults, shear zones or electrically conductive sulfide or graphite deposits.

Conductive zones are pointed out by amplitude variations caused by different factors: conductivity of the overburden, general conductivity of the area depth, angle of the zone compared to the emitting station and geometry of the zone.

Normally, a VLF anomaly does not in itself constitute a drilling target. It must be confirmed through other geophysical methods or geological data.

When conducting a VLF electromagnetic survey, it is advisable to use two perpendicular emitting stations. This helps to detect a greater number of conductors. Because of the distorsion of the field at the extremities of a conductor, false anomalies may be obtained from a station situated at the end

of a long conductor. A second station, perpendicular to the first, helps to confirm the presence of an anomaly.

Mineral concentrations have a more or less pronounced magnetic sensitivity and this causes the earth's magnetic field to vary.

Print-outs of readings taken systematically on the property show areas of greater or lesser magnetic response, which points to geological formations of different magnetic sensitivity. What is more, by measuring the vertical gradient of the earth's magnetic field, higher resolution is obtained, making interpretation easier.

Magnetite and pyrrhotine are highly magnetic minerals which are generally, although not necessarily, associated with economic minerals. In other words, the association of a magnetic anomaly with an electromagnetic or induced polarisation anomaly may be important, but is not essential.

DECLARATION FOR STATUTORY WORK PURPOSES

I, the undersigned, Mario Duquette, hired by E.M. Exploration Services Inc., do make the following declaration:

During the month of June 1988, a line cutting project covering a total of 58.98 km was conducted and a magnetic survey performed over 49.92 km. The object was to measure the total magnetic field of the Earth and calculate the vertical gradient. An electromagnetic (VLF) survey was also taken over 49.92 km on a single frequency, N.S.S. Indianapolis.

Card Lake property is located in Black township in Ontario. It is composed of 35 claims, numbered as follows:

1016324	511672
1016325	511673
1016326	511416
1016327	511144
1016328	511145
1016329	511417
1016330	515706
1016331	515707
1016334	515708
1016335	515709
1016336	503188
1016337	503190
1016338	503191
1016339	503192
1016340	503193
1016341	503189
1016342	511671
1016343	

a) Description of the VLF electromagnetic survey method

Instrument : E.M. 16 by Géonics
Interval : 25 meters
Orientation : North-East
Emitting station: N.S.S. Indianapolis

b) Description of the magnetic method

Instrument : OMNI IV by E.D.A. with base magnetometer on automatic reading (PPM 375 by E.D.A.) at one-minute intervals in the center of Card Lake property.

Precision : 0.1 gamma
Interval : 25 meters
Close-up : 12.5 meters

c) **Operator**

Magnetic survey
Pierre Bérubé
187, Fortin St.
Rouyn-Noranda (Quebec)
J9X 5M4

Geological technician

Electromagnetic survey (VLF)

Pierre Bérubé
187, Fortin St.
Rouyn-Noranda (Quebec)
J9X 5M4

Geological technician

DECLARATION

I the undersigned, Mario Duquette, residing at 304, Beauchastel Road, Granada, in the province of Quebec, obtained a college-level diploma in geology from the Collège de l'Abitibi-Témiscamingue in 1985.

Mario Duquette

MARIO DUQUETTE technologue

CERTIFICATE OF QUALIFICATION

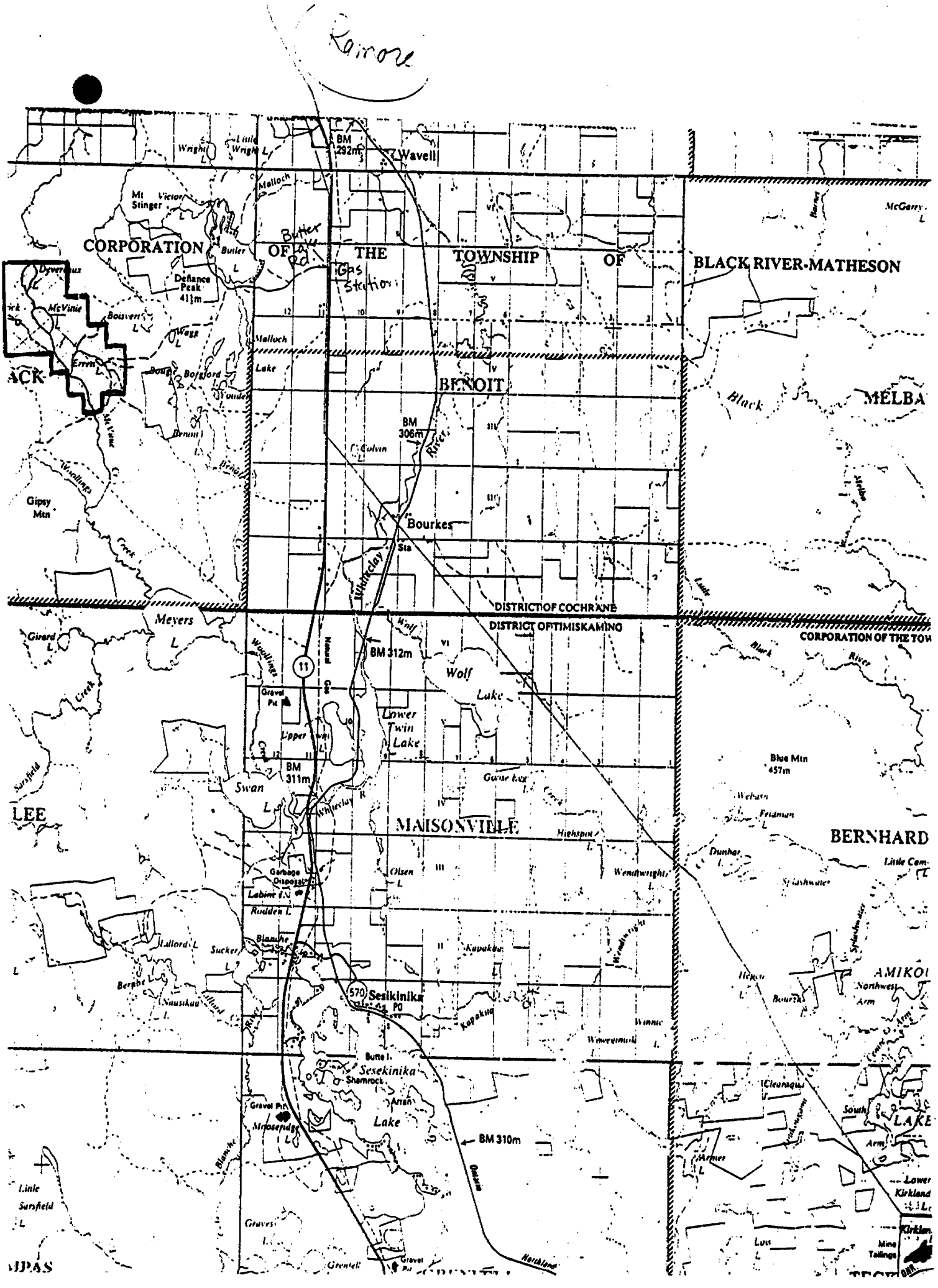
This is to certify that I, Kenneth Kryklywy, personally supervised the magnetic and electromagnetic surveys carried out on the Card Lake property in Black Township during the months of June and July, 1988.

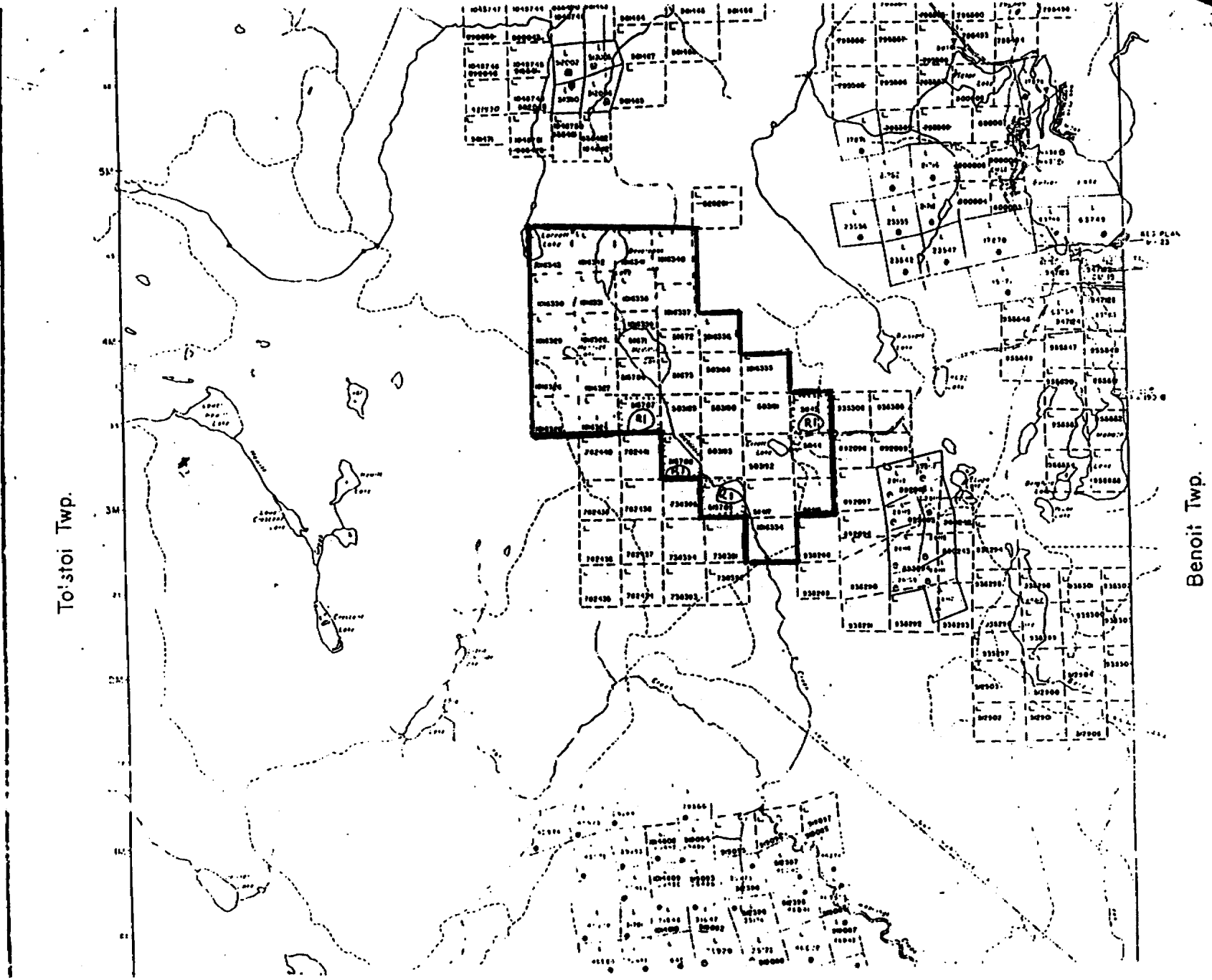
I am a registered professional engineer with A.P.E.O. and have practiced my profession as a mineral exploration geologist since 1979.

I am currently working as an exploration geologist for American Barrick Resources Corporation of Kirkland Lake, Ontario.

K. Kryklywy

M. Kenneth Kryklywy P. Eng.


Kairos
Wavell
BM 292m
Mt Victor
Stinger
Malloch
Butler
Butler Rd.
CORPORATION OF THE TOWNSHIP OF BLACK RIVER-MATHESON
Gas Station
Defiance Peak 411m
McVittie
Boisvert
Wagg
Errett
Bousfield
Lake
BENOIT
Black
MELBA
BM 306m
River
Colvin
Bourkes
Sta
Gipsy Mtn
Meyers
DISTRICT OF COCHRANE
DISTRICT OF TIMISKAMING
CORPORATION OF THE TOW
Giroard
Woodlings
Creek
Natural Gas
BM 312m
Wolf
Lake
Gravel Pit
Lower Twin Lake
Upper
BM 311m
Swan
Blue Mtn 457m
Webster
Feldman
LEE
MAISONVILLE
Highspur
BERNHARD
Dunbar
Little Cam
Garbage Disposal
Olsen
Wendwright
Labine L.
Rivilden L.
Lallord L.
Sucker
Blanche
Kapakiu
AMIKO
Northwest Arm
Bourke
570
Sesikinika PO
Kapakiu
Butte L.
Sesekinika
Shamrock
Aren
Lake
Gravel Pit
Mojoseppa
BM 310m
Ontario
Cleanaqua
South
LAKE
Arm
Mahner
Lower Kirkland
Little Sunfield
Graves
Grentell
Gravel Pit
Northland
Low
Mine Tailings
Kirkla
BAY



UTILITY LINES
NON-PERENNIAL STREA
FLOODING OR FLOODIN
SUBDIVISION OR COMP
RESERVATIONS
ORIGINAL SHORELINE
MARSH OR MUSKEG
MINES
TRAVERSE MONUMEN

DISPOSITION

TYPE OF DOCUMEN

PATENT, SURFACE & M
" , SURFACE RIG
" , MINING RIGH
LEASE, SURFACE & MI
" , SURFACE RIGH
" , MINING RIGHT
LICENCE OF OCCUPAT
ORDER-IN COUNCIL
RESERVATION .....
CANCELLED .....
SAND & GRAVEL ....

NOTE MINING RIGHTS
1913, VESTED IN
LANDS ACT R.S

SCALE: 1 INCH = 4

FEET
0 1000 2000
METRES
0 500

TOWNSHIP

BLACI

M.N.R. ADMINIST

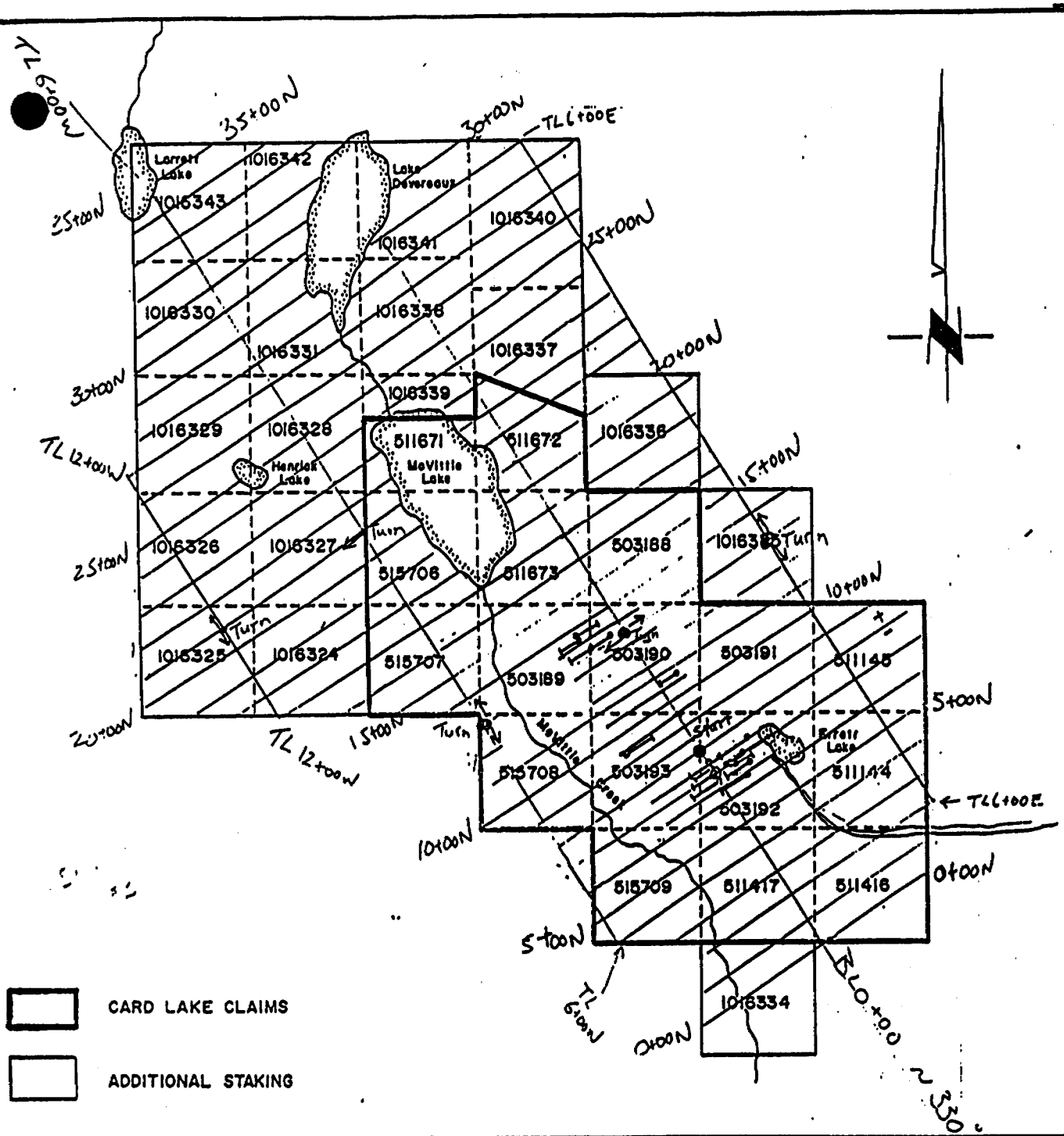
KIRKLAND

MINING DIVISI

LARDER L

LAND TITLES / R

COCHRANE



AMERICAN BARRICK RESOURCES CORPORATION

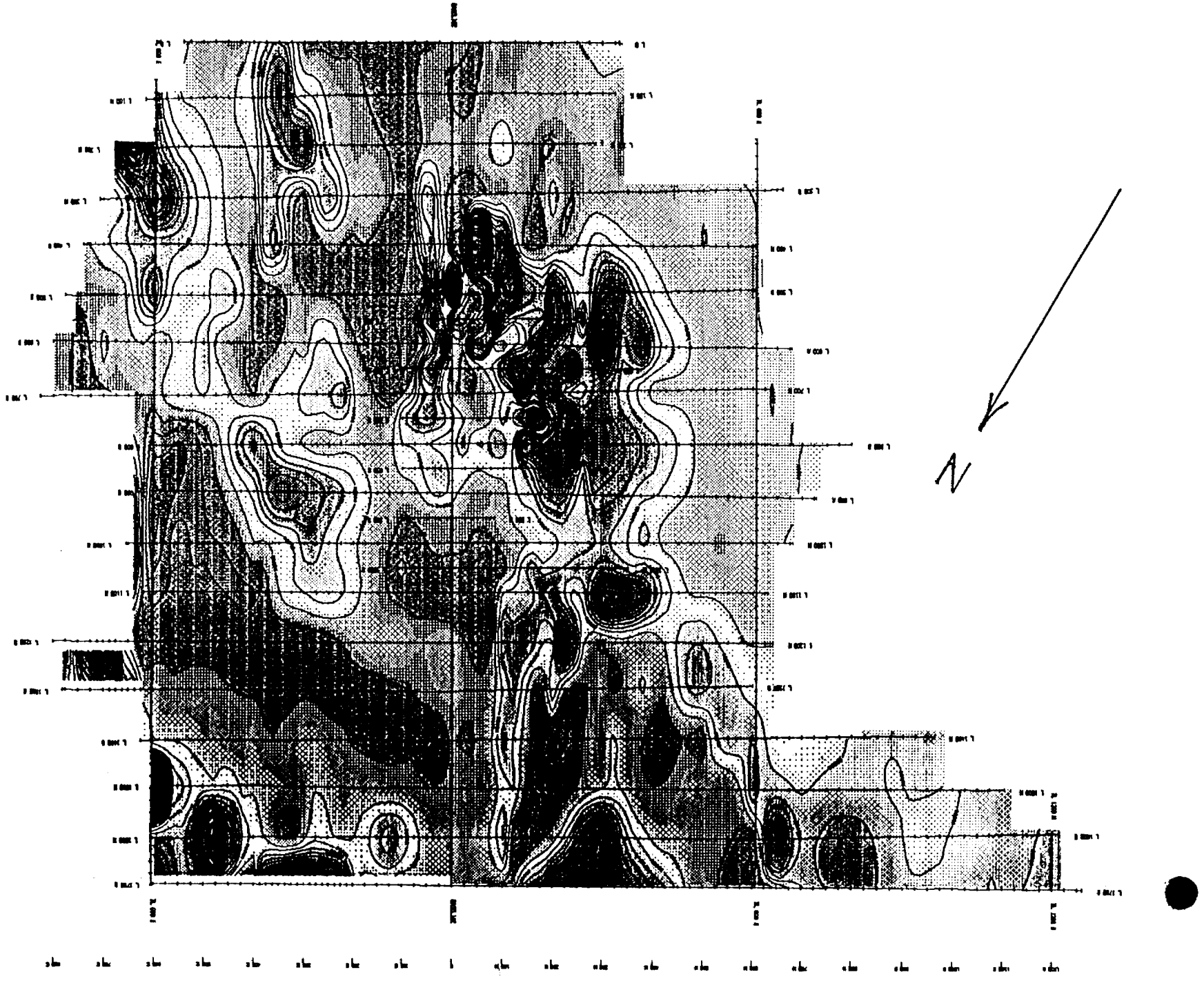
Card Lake Option - Black Township Ontario

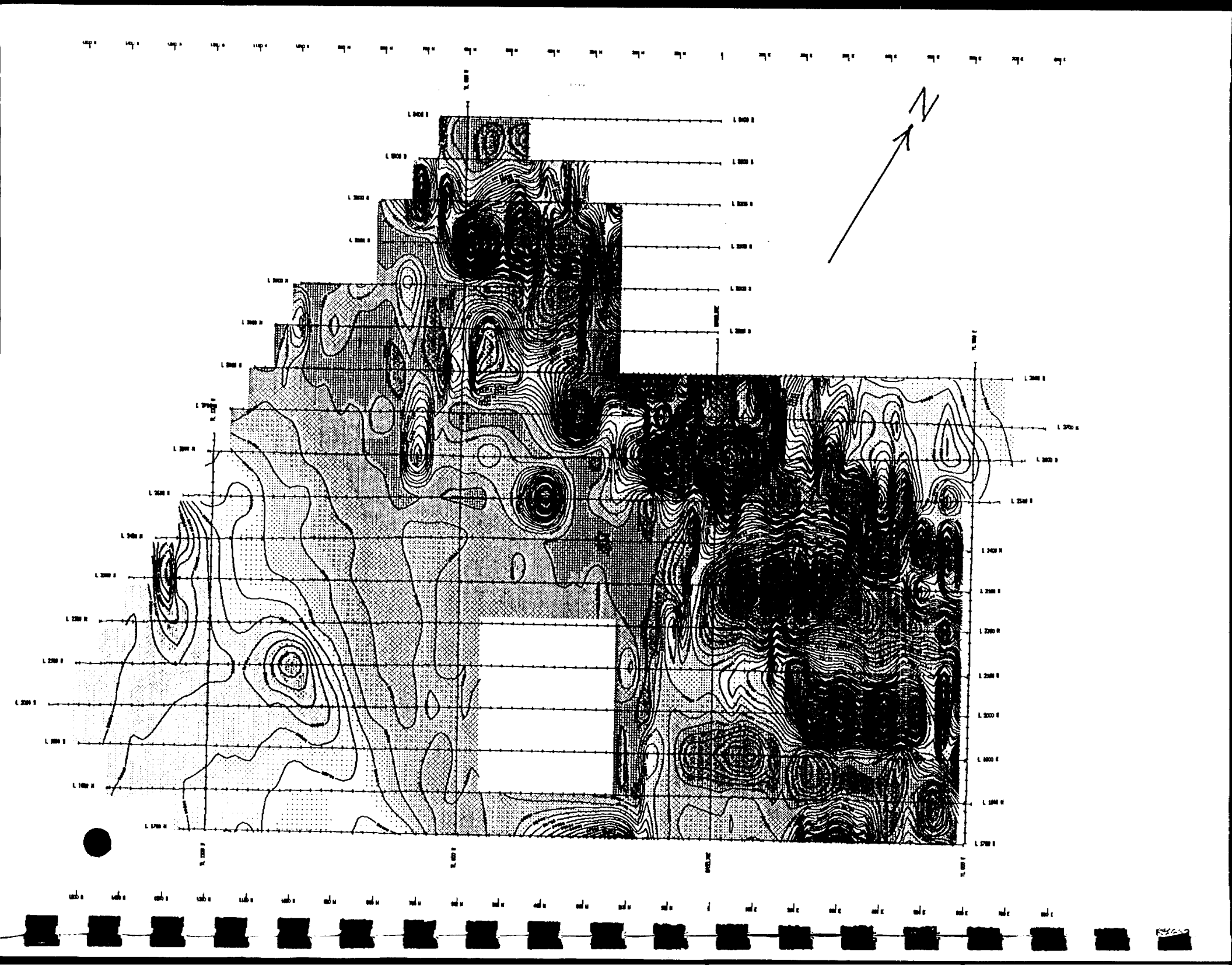
LOCATION MAP

0 500 1000

METRES

DATE:	DRAWN BY:	CHECKED BY K.K.	NTS. NO.





Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Section
3rd Floor, 880 Bay Street
Toronto, Ontario
M5S 1Z8

Telephone: (416) 965-4888

January 9, 1989

Your File: W8808-537
Our File: 2.11855

Mining Recorder
Ministry of Northern Development and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

Re: Notice of Intent dated December 2, 1988
Geophysical (Magnetometer & VLF Electromagnetic) Survey
submitted on Mining Claims L 503188 et al in Black Township

The assessment work credits, as listed with the above-mentioned Notice of Intent have been approved as of the above date.

This approval replaces our letter dated December 19, 1988, for Geophysical (Magnetometer and Radiometric) Survey as there were errors in the technical data statement.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

W.R. Cowan
Provincial Manager, Mining Lands
Mines & Minerals Division

SH:ma

c.c. Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

Resident Geologist
Kirkland Lake

Card Lake Resources Limited
Suite 1104
18 King Street East
Toronto, Ontario. M5C 1E4

Mr. Mario Duquette
304 Beauchastel Road
Granada, PQ
J0Z 2C0

Mr. Ken Kryklywy
c/o American Barrick Resources Corp.
P.O. Box 1203, 953 Government Road W.
Kirkland Lake, Ontario. P2N 3M7

Ministry of Northern Development and Mines
Ontario

Technical Assessment Work Credits

File: 2.11855

Date: January 9, 1989

Mining Recorder's Report of Work No.: W8808-537

AMENDED

Recorded Holder: Card Lake Resources Limited

Township or Area: Black Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	L 503188 to 193 inclusive 511144-45 511416-17 511672-73 515707 to 709 inclusive 1016324 to 331 inclusive 1016335 to 340 inclusive
Electromagnetic 20 days	
Magnetometer 40 days	
Radiometric ____ days	
Induced polarization ____ days	
Other ____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological ____ days	
Geochemical ____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

20 days Magnetometer 10 days Electromagnetic	10 days Magnetometer 5 days Electromagnetic
L 1016334-42-43	L 511671 515706 1016341

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

0226 (85/12)

Ministry of Northern Development and Mines

Ontario

Geophysical-Geological-Geochemical Technical Data Statement

File _____

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) MAGNETOMETRE, VLF-EM

Township or Area BLACK TWP.

Claim Holder(s) AMERICAN BARRICK RESOURCES. CORP.

Survey Company E. M. EXPLORATION SERVICES inc.

Author of Report MARIO DUQUETTE

Address of Author 304 BEAUCHASTEL RD., GRANADA, P.Q.

Covering Dates of Survey JUNE 7 - JULY 15, 1988 (linecutting to office)

Total Miles of Line Cut 59.0 km (36.6 miles)

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
–Electromagnetic	20
–Magnetometer	40
–Radiometric	
–Other	
Geological	
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: NOV. 7, 1988 SIGNATURE: K. Duquette
Author of Report or Agent

Res. Geol. _____ Qualifications this file · 2.8920

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
L-	503188
	503189
	503190
	503191
	503192
	503193
	511144
	511145
	511416
	511417
	511672
	511673
	~~511~~ 515706
	515707
	515708
	515709
	1016324
	1016325
	1016326
	1016327
	1016328
	1016329

TOTAL CLAIMS 35

* see attached sheet

If space insufficient, attach list

OFFICE USE ONLY

837 (85/12)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations 1997. Number of Readings 1997

Station interval 25.0 metres Line spacing 100 m

Profile scale 1cm = 20% – for VLF-EM survey

Contour interval 100 gammas – for mag survey

MAGNETIC

Instrument E.D.A. OMNI IV

Accuracy – Scale constant 0.1 gammas

Diurnal correction method

Base Station check-in interval (hours) automatic reading (PPM 375 by EDA) at one minute intervals.

Base Station location and value - centre of Card Lake property

ELECTROMAGNETIC

Instrument GEONICS EM. 16

Coil configuration

Coil separation

Accuracy

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency N.S.S. Annapolis, Maryland (21.4 KHz)
(specify V.L.F. station)

Parameters measured V.L.F. E.M.

GRAVITY

Instrument

Scale constant

Corrections made

Base station value and location

Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time Frequency

– Off time Range

– Delay time

– Integration time

Power

Electrode array

Electrode spacing

Type of electrode

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

_____

_____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

_____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

_____

Drainage Development _____

Estimated Range of Overburden Thickness _____

_____

_____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

_____

_____

_____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

_____

_____

_____

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_____

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1016330
1016331
1016334
1016335
1016336
1016337
1016338
1016339
1016340
1016341
1016342
1016343

511671

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

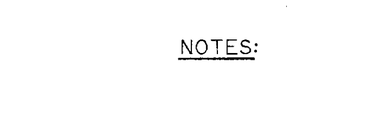
M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+ S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
SEC. 36/80	W 8/86	80/01/20	M & S	
SEC. 36/80	O 34/86	86/07/07	M & S	

NOTES:

400' frontage on Butler Lake withdrawn from disposition for proposed summer resort development, July 6, 1986

FILE 164586



42A08SW0036 2.11855 BLACK

200

CIRCULATED MAY 2/88

NOTICE OF FORESTRY ACTIVITY

THIS TOWNSHIP / AREA FALLS WITHIN THE —— WATABEAG MANAGEMENT UNIT

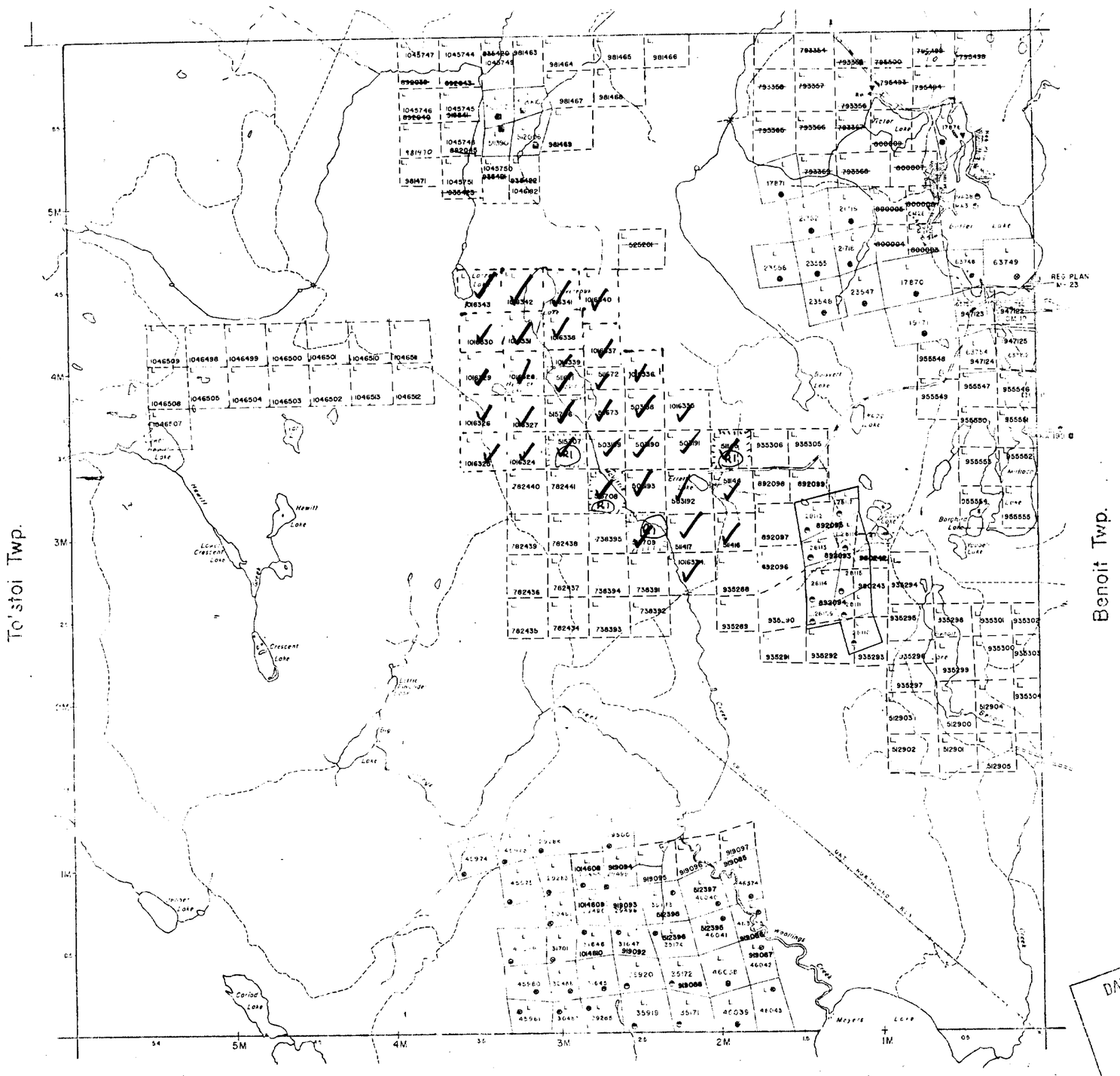
AND MAY BE SUBJECT TO FORESTRY OPERATIONS. THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT: P.O. BOX 129
SWASTIKA, ONT.
POK 1TO
705-642-3222

Playfair Twp.

To'stoi Twp.

Benoit Twp.

Lee Twp.



LEGEND

- HIGHWAY AND ROUTE No
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC
  - LOTS, MINING CLAIMS, PARCELS, ETC
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" , SURFACE RIGHTS ONLY	
" , MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" , SURFACE RIGHTS ONLY	
" , MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER IN COUNCIL	OC
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC 63, SUBSEC 1

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1 km. 2 KM.

TOWNSHIP

BLACK

M.N.R. ADMINISTRATIVE DISTRICT

KIRKLAND LAKE

MINING DIVISION

LARDER LAKE

LAND TITLES / REGISTRY DIVISION

COCHRANE

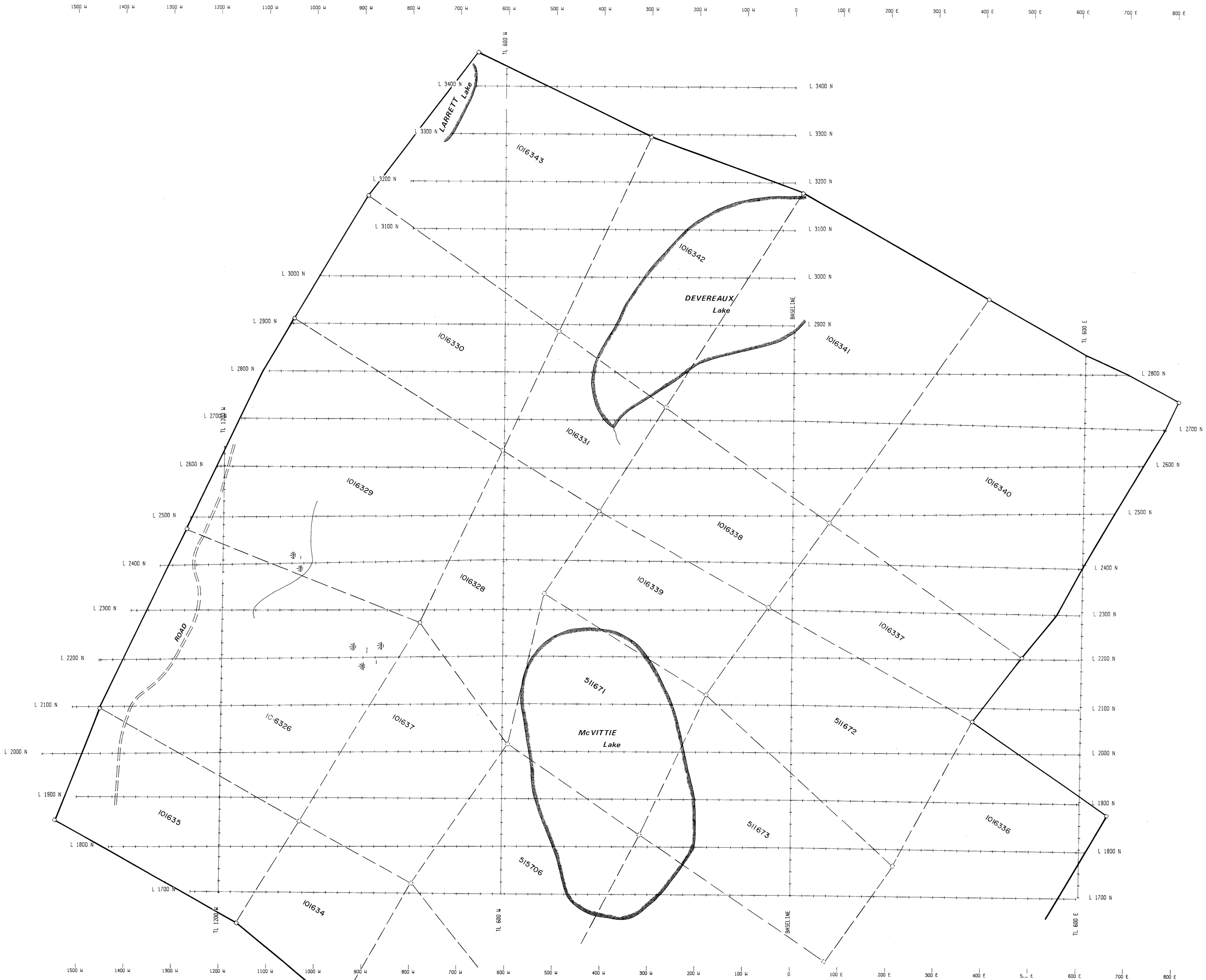
DATE OF ISSUE SEP 1988 LAND MINING RECORDER

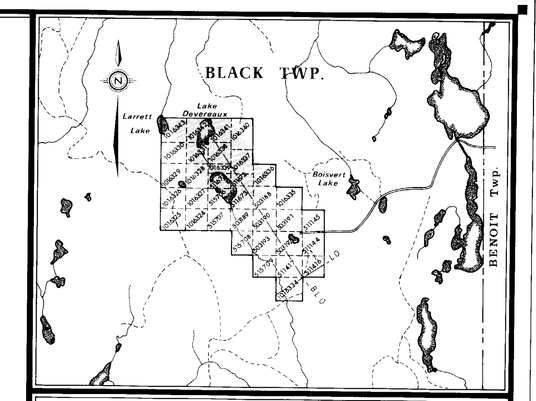
Ministry of Natural Resources — Land Management Branch

Ontario

Date JANUARY 1985

Number G-3197





INDEX MAP

SCALE 1:50 000

1000 0 1000 2000 3000

METRES

N

□ LOCATED CLAIM POST

□ ASSUMED CLAIM POST

2.11.5

FOR

AMERICAN BARRICK RESOURCES CORP.

PROJECT: CARD LAKE GRID 1 of 2

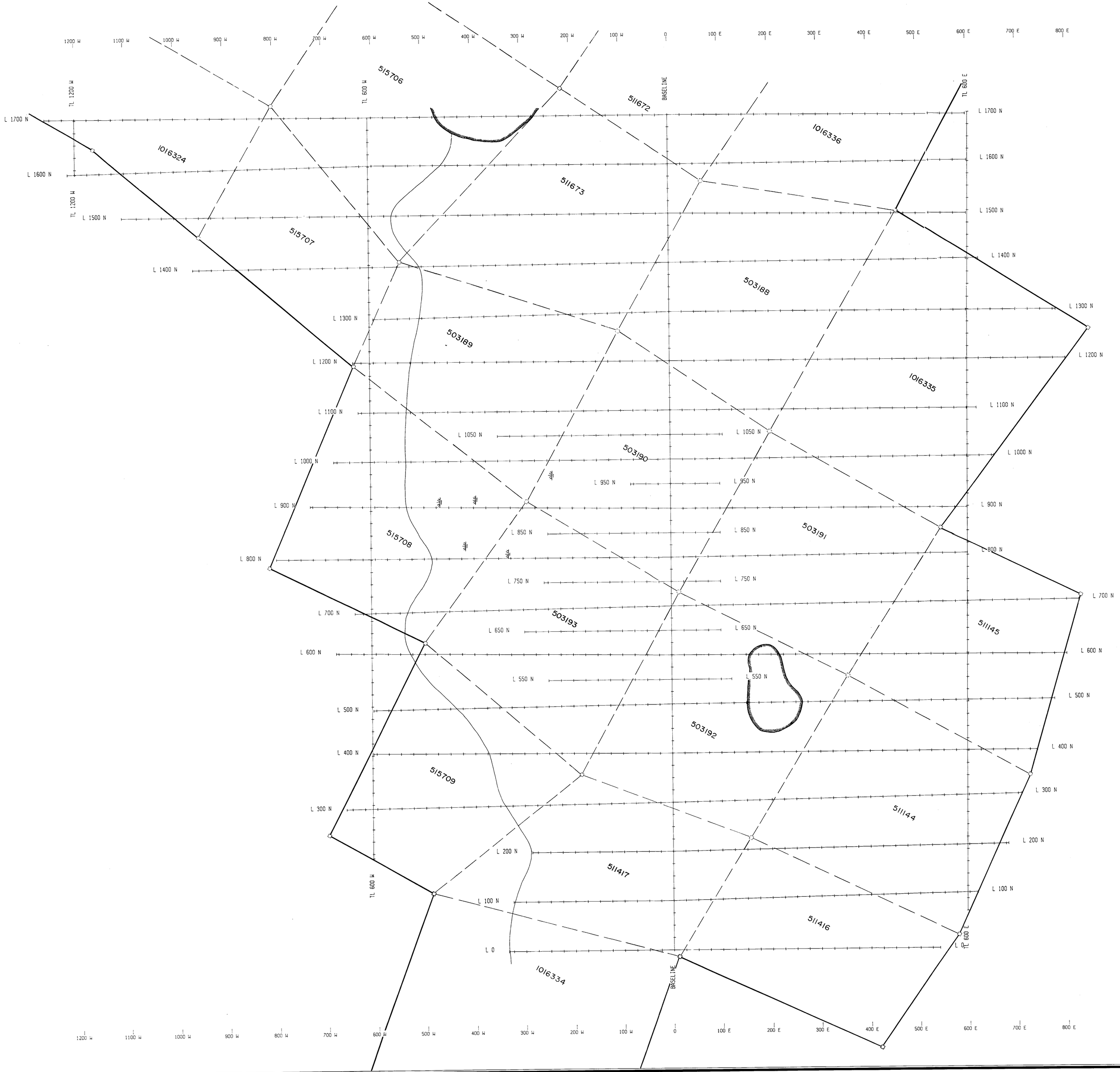
Instrument:

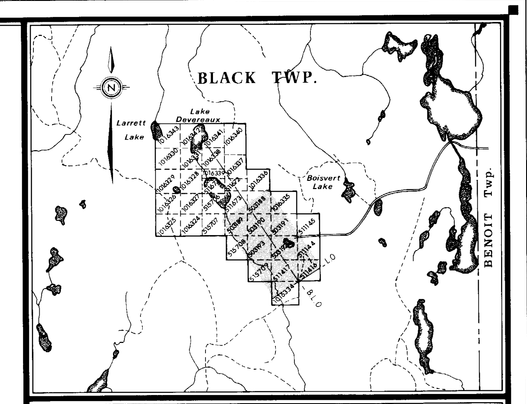
SURVEYED BY: DATE:

DRAWN BY: SCALE: 1:2500

TWP BLACK

E.M. EXPLORATION service inc.





INDEX MAP

SCALE 1:50 000

1000 0 1000 2000 3000

METRES

ASSUMED CLAIM POST

LOCATED CLAIM POST

2.11

FOR

AMERICAN BARRICK RESOURCES CORP.

PROJECT: CARD LAKE GRID 2 of 2

Instrument:

SURVEYED BY:

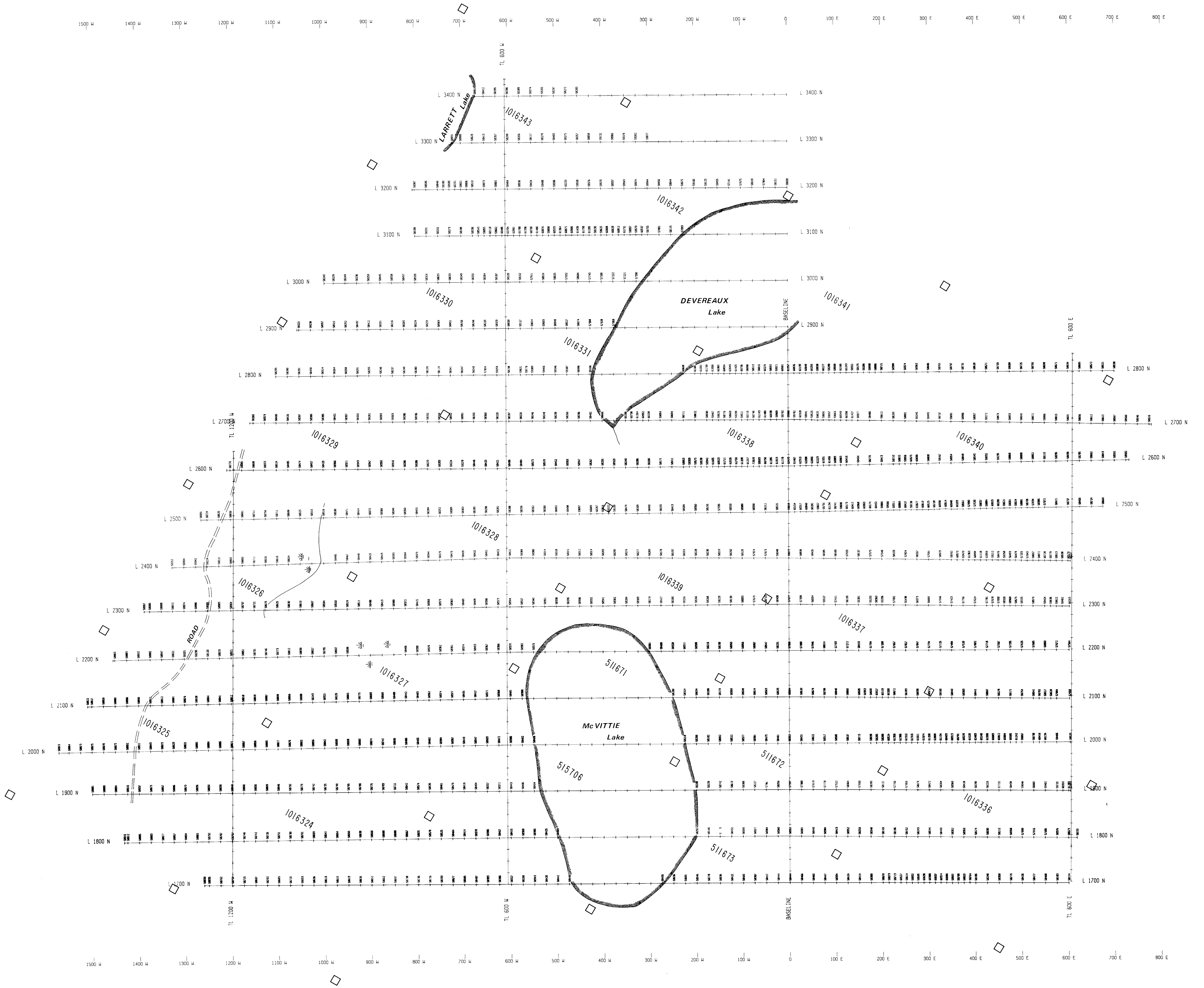
DRAWN BY

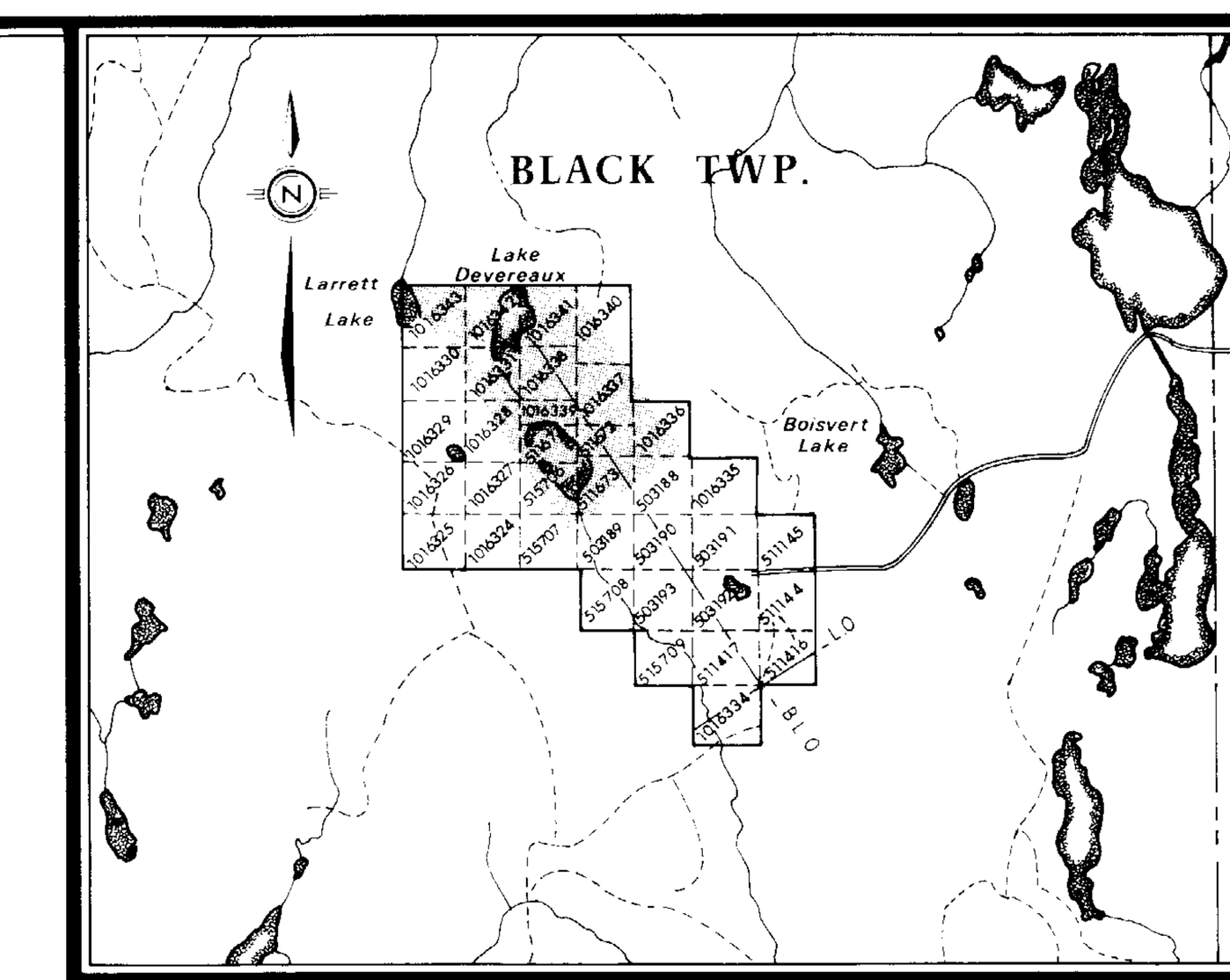
DATE:

SCALE: 1:2500

TWP BLACK

E.M. EXPLORATION service inc.





INDEX MAP

SCALE 1:50 000

1000 0 1000 2000 3000

METRES

☐ CLAIM POST LOCATION ASSUMED

2.11

MAGNETOMETER SURVEY

FOR

AMERICAN BARRICK RESOURCES CORP.

PROJECT: CARD LAKE — GRID 1 of 2

Instrument: EDA OMNI IV & PPM 375 (Base MAG.)

SURVEYED BY: M. DUQUETTE — DATE: JULY 1988

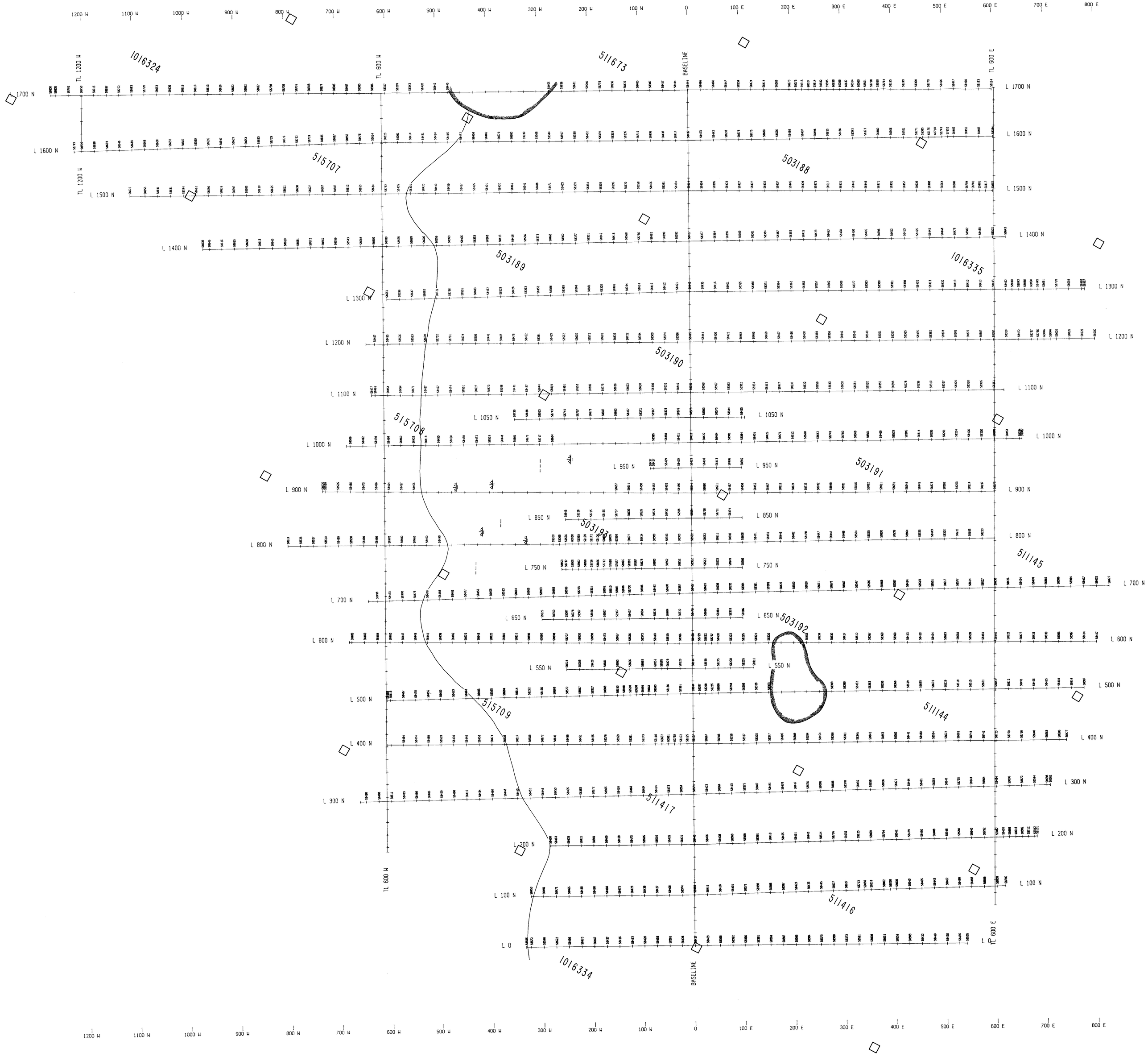
DRAWN BY: F. Poulin — SCALE: 1:2500

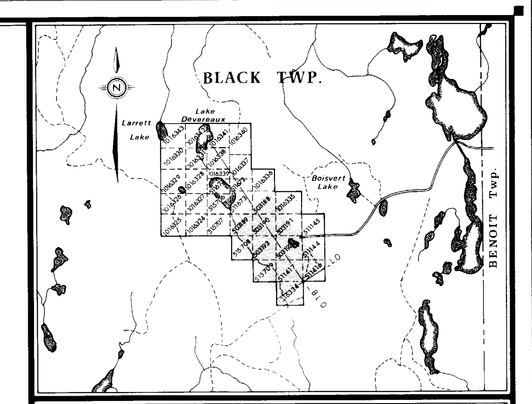
E.M. EXPLORATION service inc.

TWP. BLACK

230

42A06SW0036 2.11855 BLACK





CLAIM POST LOCATION ASSUMED

MAGNETOMETER SURVEY
FOR
AMERICAN BARRICK RESOURCES CORP.

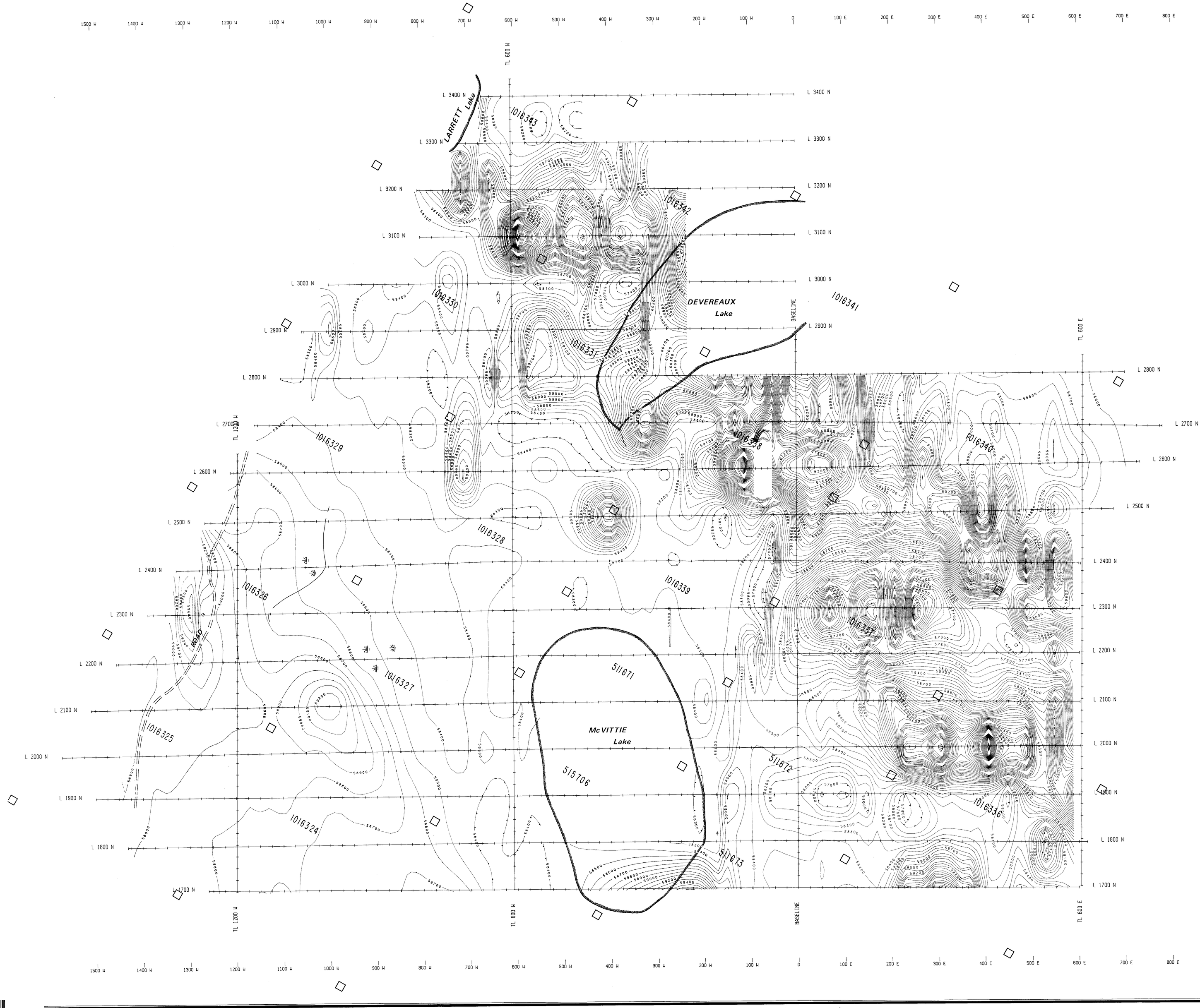
PROJECT: CARD LAKE GRID 2 of 2

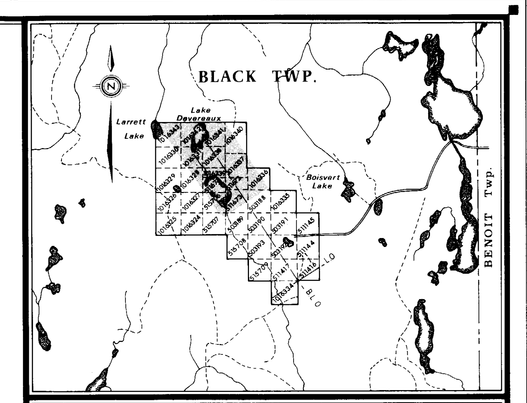
Instrument: EDA OMNI IV S PPM 375 (Base MAG.)

SURVEYED BY: M. DUQUETTE DATE: JULY 1988
DRAWN BY: F. Poulin SCALE: 1:2500

TWP. BLACK

E.M. EXPLORATION service inc.





N

☐ CLAIM POST LOCATION ASSUMED

2.11

MAGNETOMETER SURVEY
FOR
AMERICAN BARRICK RESOURCES CORP.

PROJECT: CARD LAKE GRID 1 of 2

Instrument: EDA OMNI IV & PPM 375 (Base MAG)

SURVEYED BY: M. DUQUETTE DATE: JULY 1988

DRAWN BY: E Pontin SCALE: 1:2500

TWP. BLACK

E.M. EXPLORATION service inc.


MAGNETOMETER SURVEY
FOR
AMERICAN BARRICK RESOURCES CORP.
PROJECT: CARD LAKE
GRID 2 of 2
SURVEYED BY: M.DUQUETTE
DATE: JULY 1988
DRAWN BY F.Poulin
SCALE: 1:2500
E.M. EXPLORATION service inc.
Instrument: EDA OMNI IV & PPM 375 (Base MAG.)
TWP. BLACK
CLAIM POST LOCATION ASSUMED
INDEX MAP
SCALE 1:50 000
METRES
BLACK TWP.
BENOIT Twp.
2.11
BASELINE
TL 600 E
TL 600 W
TL 1200 W
503188
503189
503190
503191
503192
503193
511144
511145
511416
511417
511673
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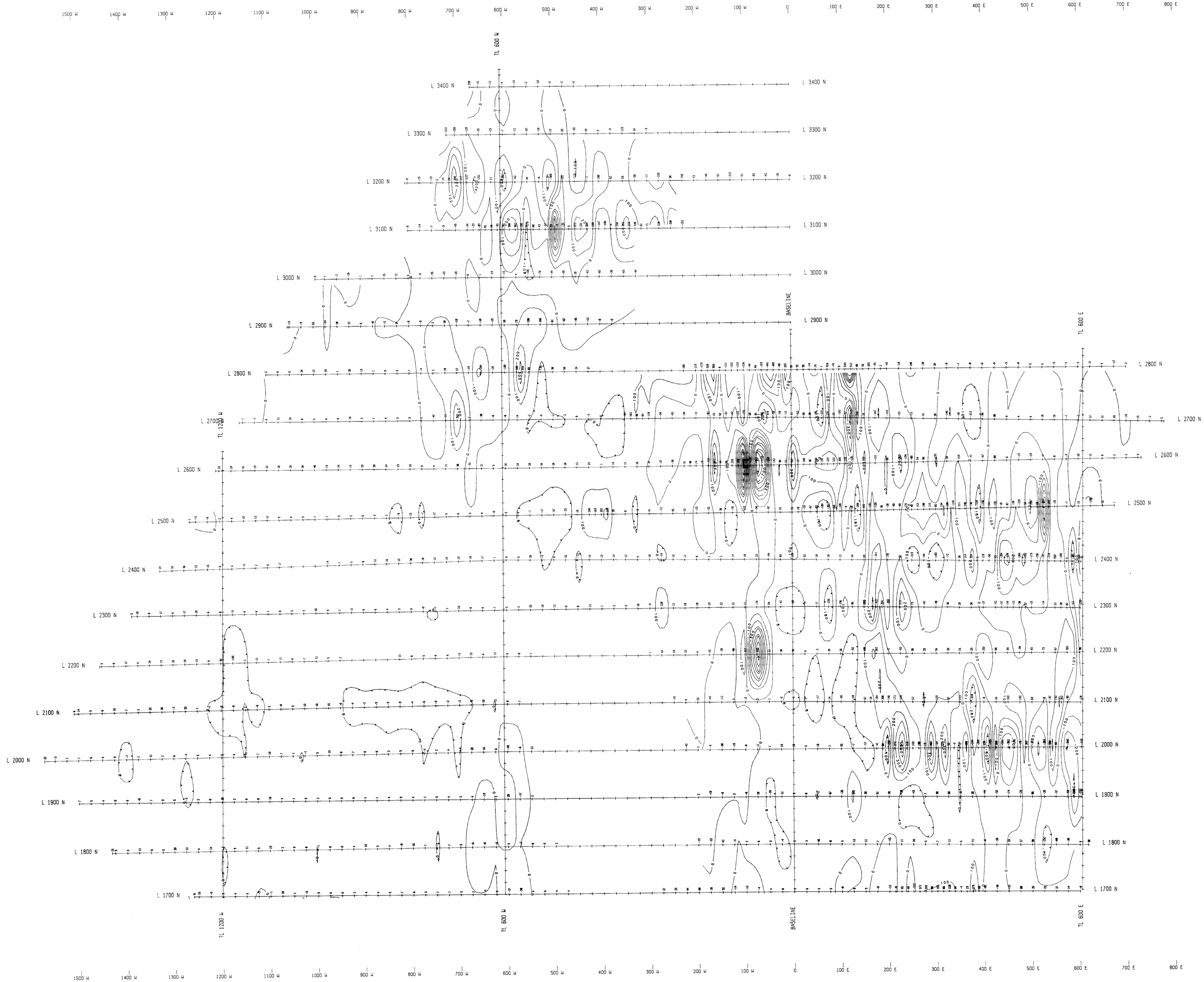
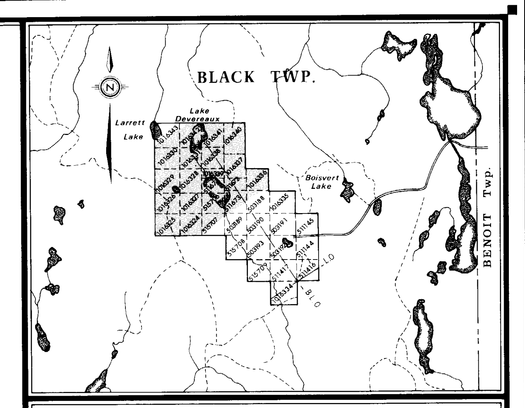
515709
1016324
1016334
1016335
260





INDEX MAP

SCALE 1:50,000

1000 0 1000 2000 3000

METRES

MAGNETOMETER SURVEY
(GRADIENT)

FOR

AMERICAN BARRICK RESOURCES CORP.

PROJECT: CARD LAKE *GRID 1 of 2*

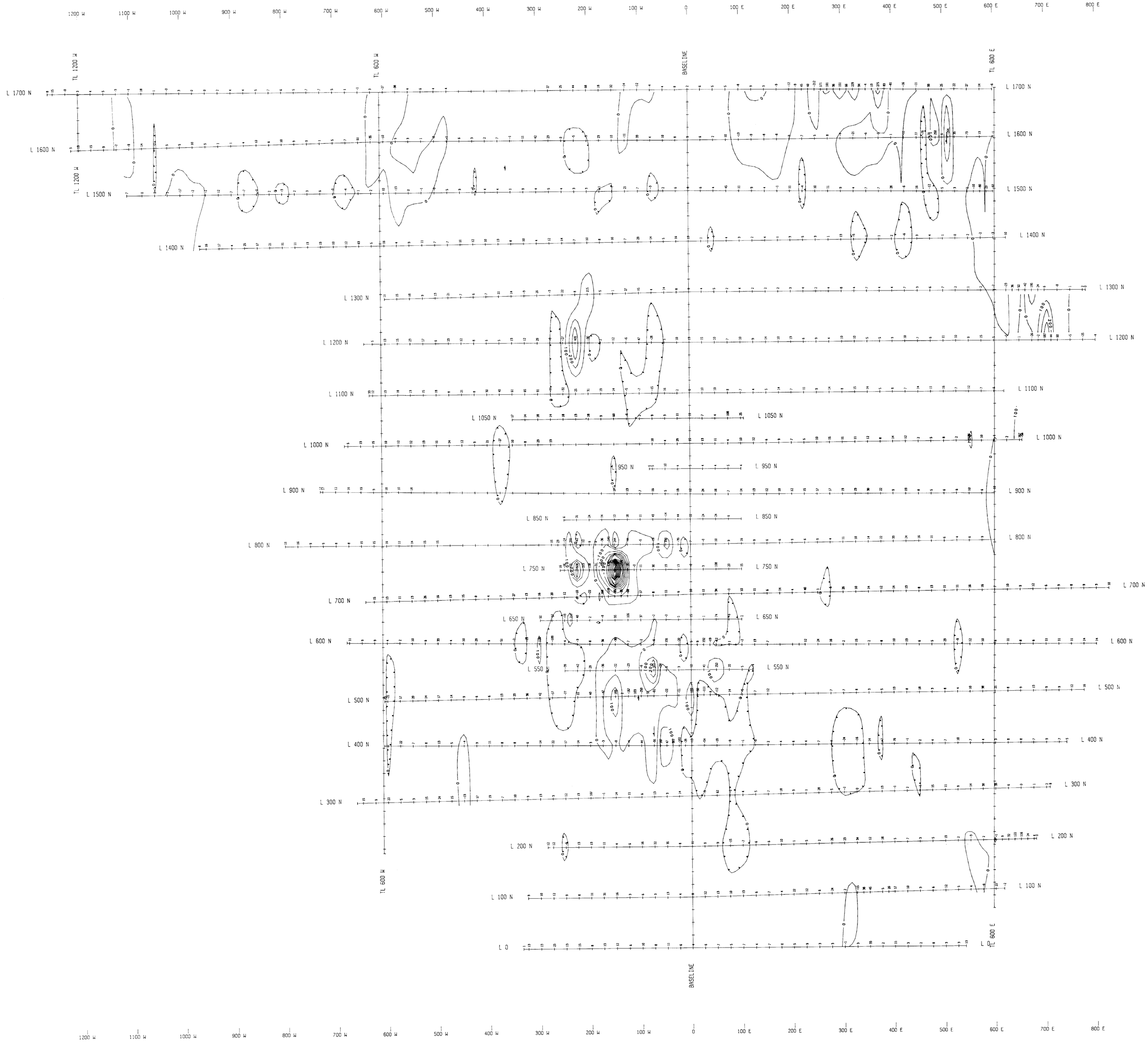
Instrument: EDA Omni IV

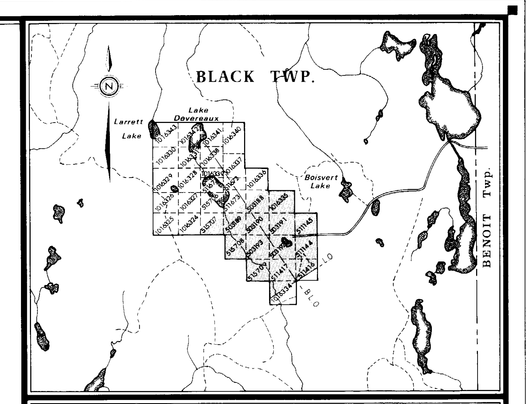
SURVEYED BY: P. Berube DATE: July, 88

DRAWN BY: Services Exploration SCALE: 1:2500

TWP. BLACK

E.M. EXPLORATION service inc.





INDEX MAP

SCALE 1:50 000

1000 0 1000 2000 3000

METRES

MAGNETOMETER SURVEY
(GRADIENT)

FOR

AMERICAN BARRICK RESOURCES CORP.

PROJECT: CARD LAKE GRID 2 of 2

SURVEYED BY: P. Rezube DATE: July. 88

DRAWN BY Services Explorations SCALE: 1:2500

Instrument: EDA Omni IV

TWP. BLACK

E.M. EXPLORATION service inc.


MAGNETOMETER SURVEY
(PROFILE GRADIENT)
FOR
AMERICAN BARRICK RESOURCES CORP.
PROJECT: CARD LAKE
GRID 1 of 2
SURVEYED BY: M.DUQUETTE
DRAWN BY F.Poulin
DATE: JULY 1988
SCALE: 1:2500
E.M. EXPLORATION service inc.
Instrument: EDA OMNI IV & PPM 375 (Base MAG.)
TWP. BLACK
CLAIM POST LOCATION ASSUMED
INDEX MAP
METRES
BLACK TWP.
BENOIT Twp.
Boisvert Lake
Lake Devereaux
Larrett Lake
DEVEREAUX Lake
McVITTIE Lake
LARRETT Lake
ROAD
BASELINE
TL 600 E
TL 600 W
TL 1200 W
L 3400 N
L 3300 N
L 3200 N
L 3100 N
L 3000 N
L 2900 N
L 2800 N
L 2700 N
L 2600 N
L 2500 N
L 2400 N
L 2300 N
L 2200 N
L 2100 N
L 2000 N
L 1900 N
L 1800 N
L 1700 N
1016340
1016341
1016342
1016343
1016338
1016331
1016330
1016329
1016328
1016337
1016339
1016336
1016327
1016326
1016325
1016324
511672
511673
511671
515706
290

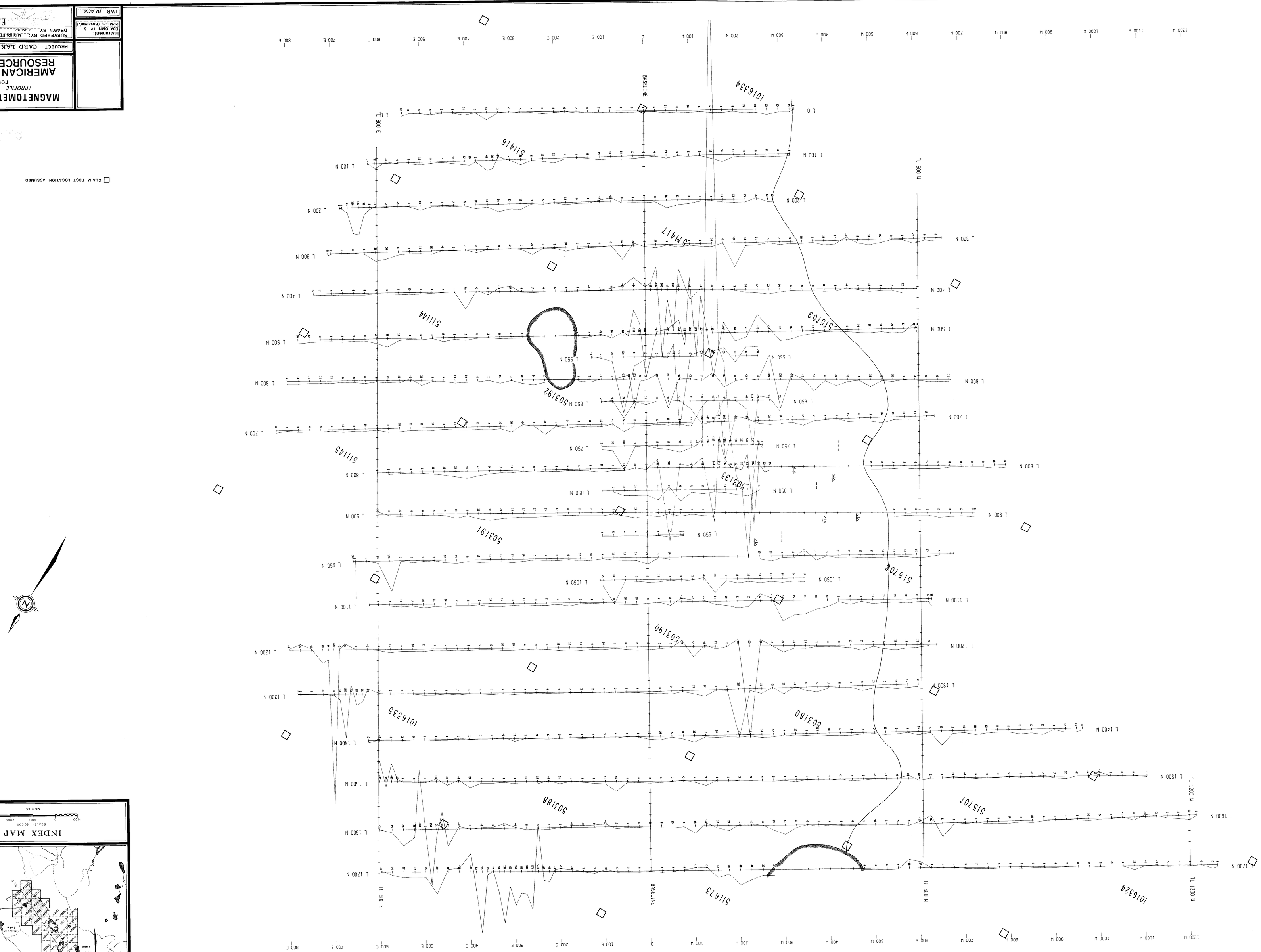
MAGNETOMETER SURVEY
(PROFILE GRADIENT)
FOR
AMERICAN BARRICK RESOURCES CORP.

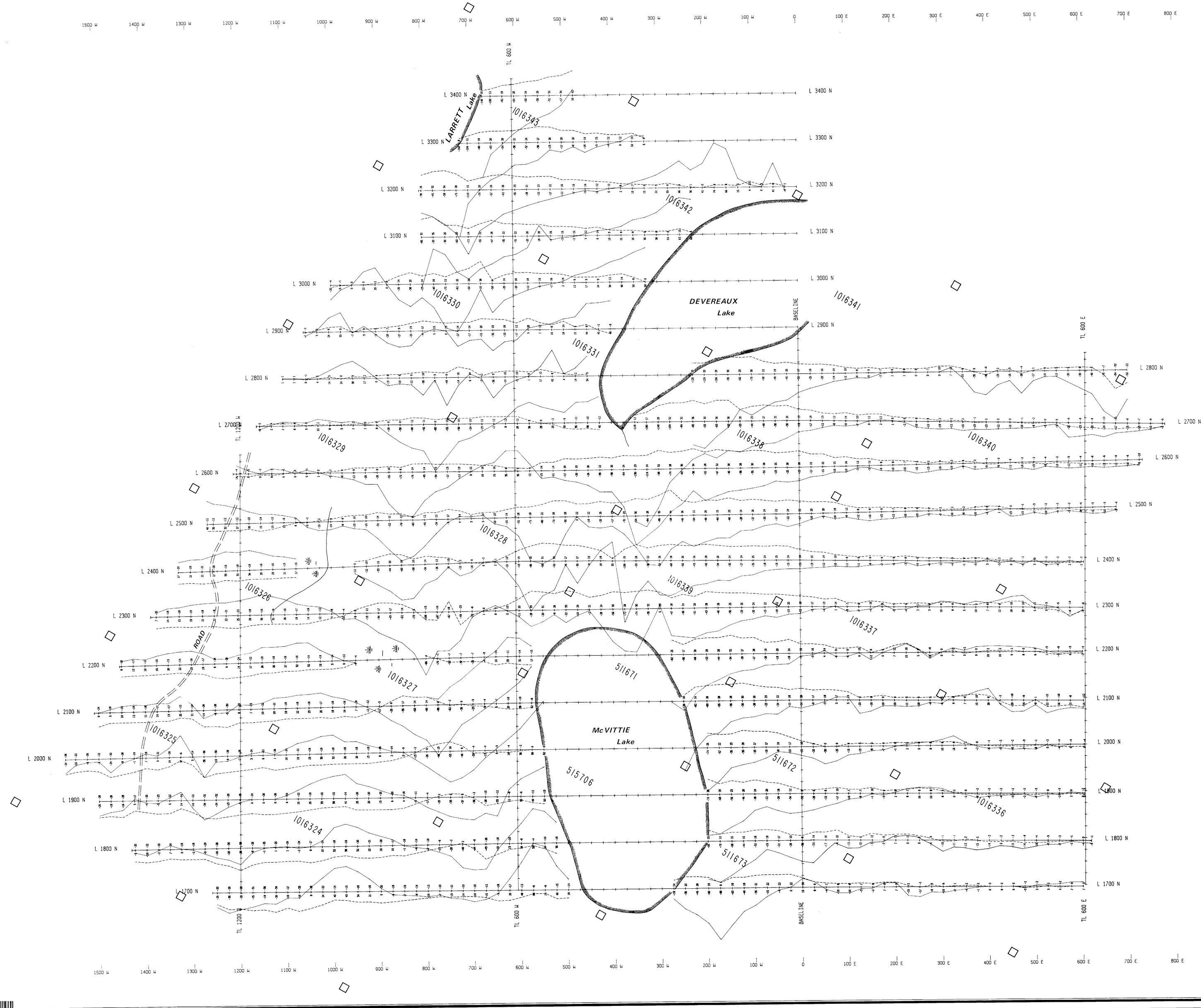
PROJECT: CARD LAKE GRID 2 of 2

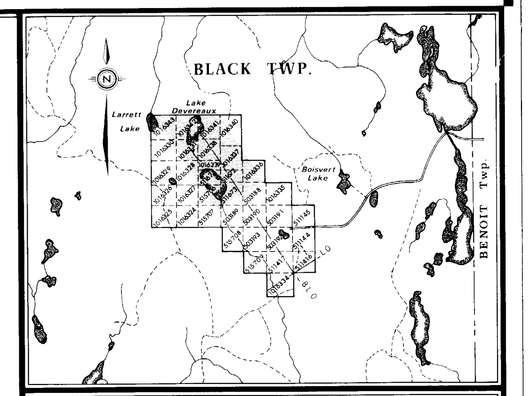
Instrument: EDA OMNI IV A (EDA-325 MAG)	TWP. BLACK
SURVEYED BY: M.DUQUETTE DATE: JULY, 1988	
DRAWN BY: F.Doyle SCALE: 1:2500	

E.M. EXPLORATION service Inc.

☐ CLAIM POST LOCATION ASSUMED

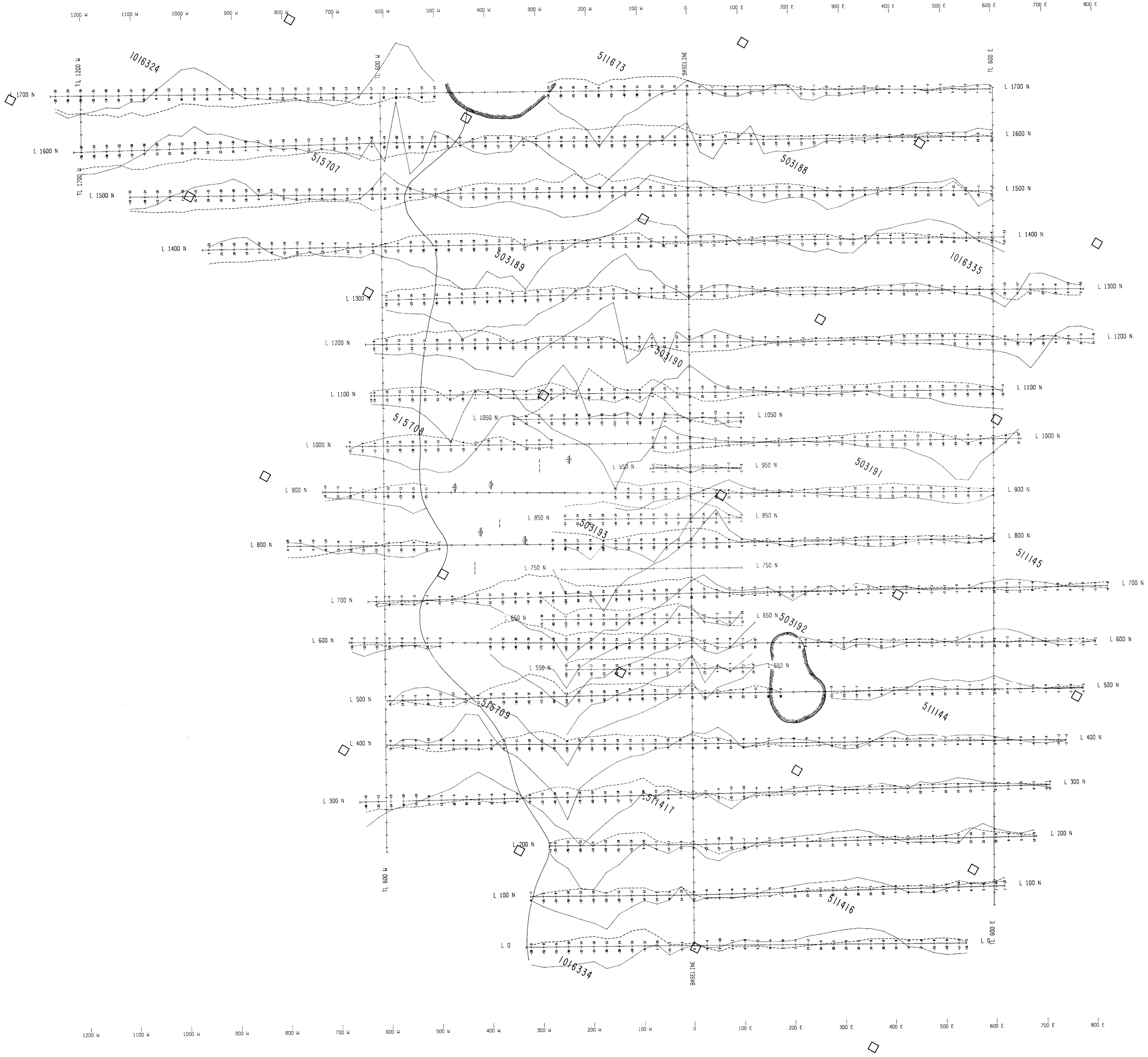


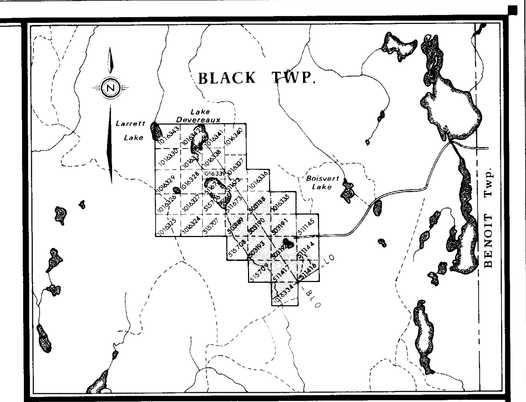




CLAIM POST LOCATION ASSUMED

Frequency: NSS 21.4 KHZ	**ELECTROMAGNETIC SURVEY** FOR **AMERICAN BARRICK RESOURCES CORP.**
I.P.	
O.P.	
tcm: 20	
I.P. ± 0.5 / O.P. ± 0.5	PROJECT: CARD LAKE GRID 1 of 2
Instrument: GEONICS EM-16	SURVEYED BY: P.REBURE DATE: JULY 1989
TWP. BLACK	DRAWN BY: F.Pavlin SCALE: 1:2500
	E.M. EXPLORATION service inc.





CLAIM POST LOCATION ASSUMED

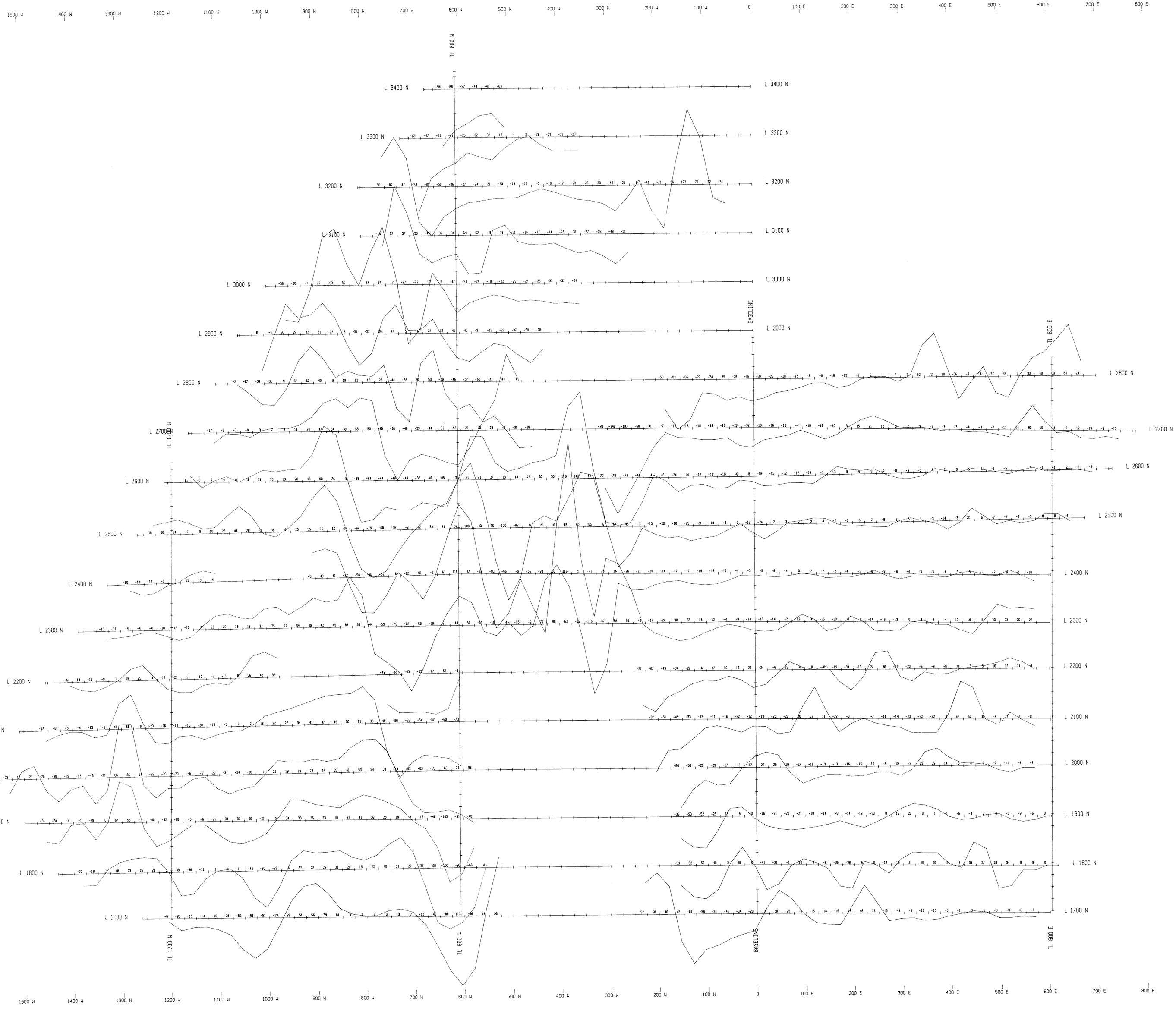
Frequency
NSS 21.4 KHZ
I.P.
O.P.
1cm = 20 %
I.P. ±05
O.P. ±05
Instrument:
GEONICS EM-16
TWP. BLACK

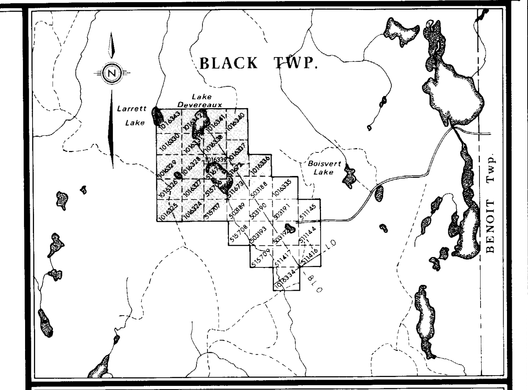
ELECTROMAGNETIC SURVEY
FOR
AMERICAN BARRICK RESOURCES CORP.

PROJECT: CARD LAKE GRID 2 of 2

SURVEYED BY: P.BERUBE DATE: JULY 1988
DRAWN BY: F.Pavlin SCALE: 1:2500

E.M. EXPLORATION service inc.





INDEX MAP

SCALE : 50 000

1000 0 1000 2000 3000

METRES

Frequency: NSS 21.4 KHz

IP

1cm = 20 %

Instrument: GEONICS EM-16

TWP. BLACK

ELECTROMAGNETIC SURVEY

(FRASER FILTER)

FOR

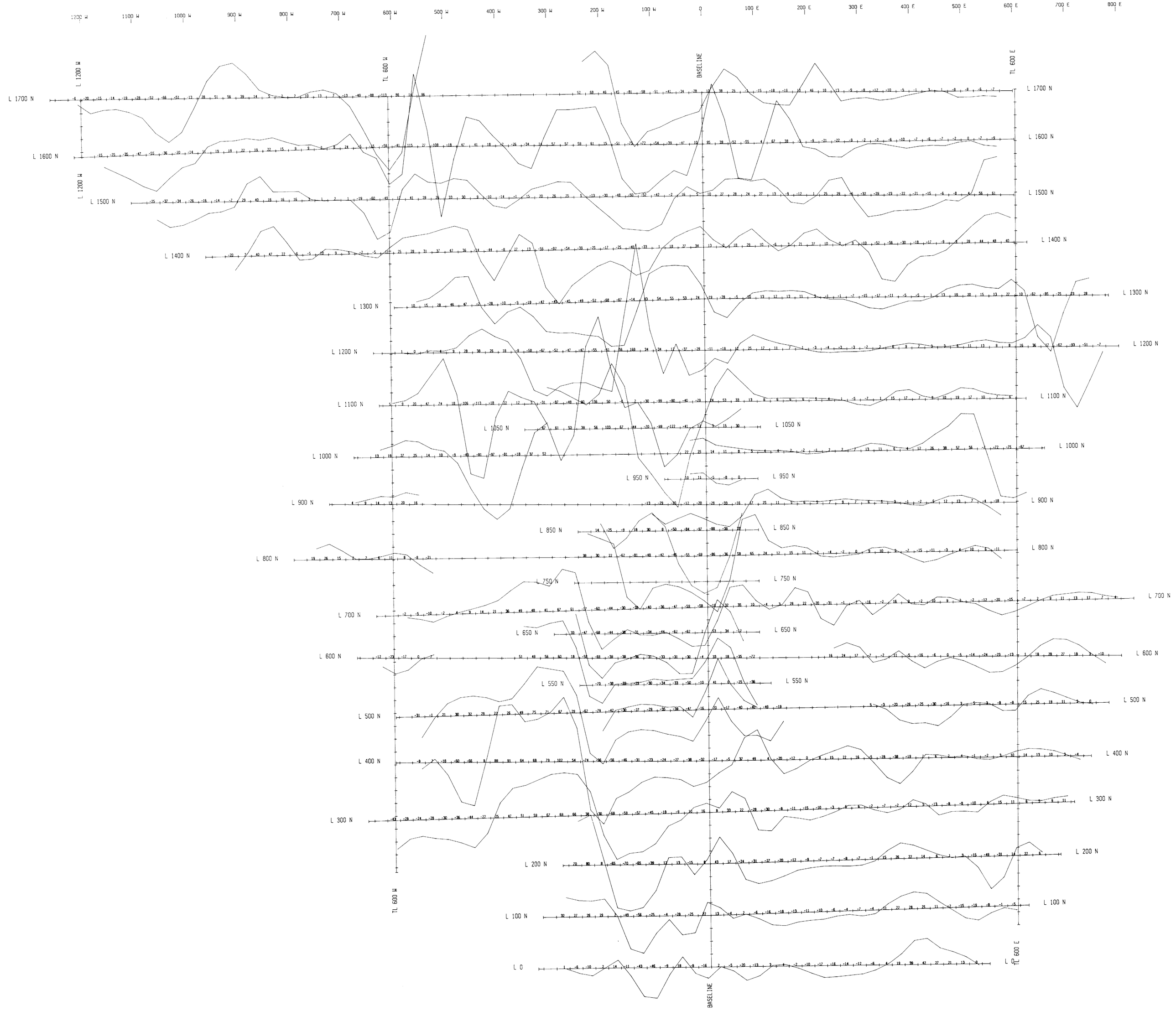
AMERICAN BARRICK RESOURCES CORP.

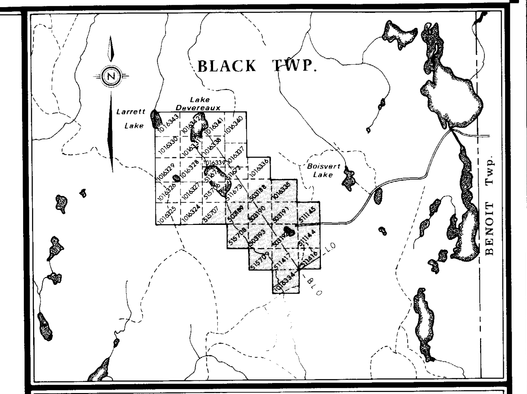
PROJECT: CARD LAKE GRID 1 of 2

SURVEYED BY: M.Duquette DATE: July '88

DRAWN BY: Services Exploration SCALE: 1:2500

E.M. EXPLORATION service inc.





INDEX MAP

SCALE 1:50 000

1000 0 1000 2000 3000

METRES

Frequency: NSS 21.4 KHz

I.P.

1cm = 20 %

Instrument: GEONICS EM-16

TWP. BLACK

ELECTROMAGNETIC SURVEY

(FRASER FILTER)

FOR

AMERICAN BARRICK RESOURCES CORP.

PROJECT: CARD LAKE GRID 2 of 2

SURVEYED BY: M.Duquette DATE: July, 88

DRAWN BY: Services Exploration SCALE: 1:2500

E.M. EXPLORATION service inc.